



United Nations Interim Security Force in Abyei

REQUEST FOR INFORMATION (RFI)

This notice is placed by UNISFA. The accuracy, reliability and completeness of the contents of furnished information is the responsibility of United Nations Interim Security Force in Abyei. You are therefore requested to direct all queries regarding this RFI to United Nations Interim Security Force in Abyei using the fax number or e-mail address provided below.

Title of the RFI:

Provision of Waste Plastic Recycling Services to UNISFA in Abyei

Date of this RFI: 29 August 2022**Closing Date for Receipt of RFI:** 12 September 2022**RFI Number:** RFIUNISFA20177**Beneficiary Country/Territory:** Sudan**Commodity/Service category:** Solid Waste Management**Address RFI response by fax or e-mail to the Attention of:** Samantha Karimanzira**Fax Number:****E-mail Address:** karimanzira@un.org**UNSPSC Code:** 24102400, 76120000, 76122300**DESCRIPTION OF REQUIREMENTS**

1. BACKGROUND

Large volumes of waste plastics, predominately PET water bottles and to a lesser degree, HDPE, LDPE, and PP containers and wrapping are being generated at UNISFA. With no identified viable recycling solutions locally available, UNISFA is seeking alternative and sustainable solutions for the management of the accumulated volumes of waste plastics.

UNISFA wishes to develop a plastic recovery project for recycling of selected waste plastics generated by the mission into usable products. The pilot project will be developed as a testing, demonstration and verification platform for viable plastic recycling methods and operations with possible later expansion of the project. Under the conditions, introduction of plastic recycling will bring three main benefits:

- 1.1 Reduce the amount of plastic incinerated and the amount of plastic transported to UNISFA, because all products made from recycled plastic will not have to be purchased.
- 1.2 Plastic recycling will be in-line with UNISFA's approach to implement sustainable solutions in the mission area.



1.3 UNISFA plans to explore the means to collect plastic around the perimeter fence of the Mission HQ.

UNISFA may engage some local workers from the third-party contractor at set intervals and pay a small set fee in line with established pay-scales. The collection of loose plastic outside the perimeter fence will contribute to the removal of plastics from the environment that are often windblown into the UNISFA camp.

2. EQUIPMENT AND TRAINING REQUIREMENTS

Given that portable/pilot scale waste plastic recovery is a relatively new requirement this RFI seeks to identify qualified vendors globally available that can manufacture and deliver the types of specialty equipment at the right scale and function required for this proposed pilot project. Specifically, the proposed plastic recycling equipment requires a simple but robust design that will safely enable ongoing production, be easily operable and maintained by trained artisans and be suitable for the environmental conditions and specific waste plastics generated at the mission.

The proposed equipment will include:

- 2.1 Extruder – to make beams, bricks, and specialized design items
- 2.2 Mould injector – to make smaller plastic items using moulds
- 2.3 Sheet press – to make large sheets of plastic of various thickness
- 2.4 Fiber floss machine – to make fibrous floss for use as insulation, stuffing materials and crafting fibre

SPECIFIC REQUIREMENTS / INFORMATION (IF ANY)

3. QUALIFICATIONS

UNISFA is looking for a competent and qualified company or formal consortia of companies to establish, operate and maintain a plastic recycling plant which would be located within a designated area in the UNISFA Headquarters premises in Abyei, and provide recycled products to UNISFA for a minimum period of five (5) years in line with UN General Conditions of Contract. The plant will be able to recycle a wide range of different products/materials can be fabricated (attached as Figure 1 - Flow diagram for pre-processing and the recycling production process) using different production techniques such as:

3.1 Extrusion (HDPE, LDPE, PP):

- o Bricks both solid and hollow for small light load bearing construction walls
- o Beams of various sizes that can be used for the construction of benches and tables

3.2 Injection molding (HDPE, PP):

- o Small objects such as carabiners, plates, flowerpots.

3.3 Sheet pressing (HDPE, PP):

- o Plastic sheeting (0.25m² - 1.5m², various thickness) that can be cut, shaped and used with recycled beam material to make furniture
- o Tiles/pavers for walls and floors and furniture

3.4 Fiber flossing (PET, PP)

- o Insulation fiber
- o Stuffing materials
- o Thread for textile manufacturing, including the following breakdown of works and services:

4. SERVICES REQUIRED



The Contractor shall:

- 4.1. Survey, design and layout, supply, transport, install and commission the plant for the plastic recycling facility/plant.
- 4.2. Provide the types of specialty equipment at the scale and function needed for the project
- 4.3. Operate and maintain the plastic recycling plant within the UNISFA premises
- 4.4. Research and develop efforts geared toward perfecting waste plastic recovery equipment to ensure not only ease of use and maintenance but also the durability of the products and worker safety and develop emerging craft products relative to the local area
- 4.5. Provide training on the different types of plastics and their specific characteristics and uses for recycling.
- 4.6. Operator training and maintenance for each equipment type and their specific recycling process,

5. INFORMATION REQUESTED

Vendors/Companies interested in this published RFI should submit the following documentation on or before 12 September 2022:

- 5.1 Ability to perform all or part of the services specified in Section 4 above.
- 5.2 An all-inclusive fee for the project including proposed equipment
- 5.3 Tentative timeline based on previous project experience for execution of works and services as specified in Section 4.
- 5.4 A summary of your organization profile, structure and previous experience, particularly in fragile states
- 5.5 Vendor's experience in decentralized recycling projects in fragile state countries where the vendor was responsible for all or some of the following stages of the project: engagement with local and national authorities, project permitting and licensing, community engagement, energy demand assessment and development of feasibility studies.
- 5.6 Capacity building programmes run by the vendor in fragile state countries and integration of local workforce (especially youth workforce and women) in the execution of the vendor's projects in those countries.
- 5.7 Filled RFI questionnaire (attached) and provide any relevant information as required.
- 5.8. Filled up project cost estimate (attached)
- 5.9 Incomplete RFI submissions will not be considered.

This RFI does not constitute a solicitation. UNISFA reserves the right to change or cancel the requirements at any time during the RFI and/or solicitation process. Thus, submitting a response to this RFI does not automatically guarantee that your company will be considered for receipt of the solicitation when issued.

The submission, clearly marked "Provision of a Waste Plastic Recycling Project at the UNISFA Headquarters in Abyei" must be received by UNISFA no later than Monday, 12 September 2022 at 16:00 hours local time in Abyei (GMT or UTC +2), via email to karimanzira@un.org

NOTE

Information on tendering for the UN Procurement System is **available free of charge** at the following address: <https://www.ungm.org/Public/Notice>

Only the United Nations Global Marketplace (UNGM) has been authorised to collect a nominal fee from vendors that wish to receive automatically Procurement Notices or Requests for Expression Of Interest. Vendors interested in this Tender Alert Service are invited to subscribe on <http://www.ungm.org>



Vendors interested in participating in a potential future solicitation process should submit the Vendor Response Form of this RFI electronically (through the link available on the next page) before the closing date set forth above.



VENDOR RESPONSE

NOTICE

- Companies can only participate in solicitations of the UN Secretariat after completing their registration (free of charge) at the United Nations Global Marketplace (www.ungm.org).
- Please verify that your company is registered under its **full legal** name on the United Nations Global Market Place (www.ungm.org) and that your application for registration as vendor has been submitted to the **UN Secretariat** in the same site, to be able to participate in any potential solicitation process as a result of this RFI.
- While companies can participate in solicitations after completion of registration at Basic Level, we strongly recommend all companies to register at least at **Level 1** under the United Nations Secretariat prior to participating in any solicitations.

PLEASE NOTE: You should submit your response to this RFI electronically at:

<https://www.un.org/Depts/ptd/node/add/interest-expressed?EOI=RFIUNISFA20177>

In case you have difficulties submitting your response electronically, please contact karimanzira@un.org directly for instructions.



RFI INSTRUCTIONS

1) Registering as a Vendor with the United Nations

Vendors interested in fulfilling the requirement described above must be registered at the UN Global Marketplace (www.ungm.org) with the UN Secretariat in order to be eligible to participate in any solicitation. Information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>.

Prerequisites for Eligibility

In order to be eligible for UN registration, you must declare that:

- A. Your company (as well as any parent, subsidiary or affiliate companies) is not listed in, or associated with a company or individual listed in:
 - I. the Compendium of United Nations Security Council Sanctions Lists (<https://www.un.org/sc/suborg/en/sanctions/un-sc-consolidated-list>), or
 - II. the IIC Oil for Food List website or, if listed on either, this has been disclosed to the United Nations Procurement Division in writing.
- B. Your company (as well as any parent, subsidiary or affiliate companies) is not currently removed or suspended by the United Nations or any other UN organisation (including the World Bank);
- C. Your company (as well as any parent, subsidiary or affiliate companies) is not under formal investigation, nor have been sanctioned within the preceding three (3) years, by any national authority of a United Nations Member State for engaging or having engaged in proscribed practices, including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice;
- D. Your company has not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against your company that could impair your company's operations in the foreseeable future;
- E. Your company does not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with the Vendor in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15).
- F. Your company undertakes not to engage in proscribed practices (including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice), with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN.

For Registered Vendors: Vendors already registered at the UN Global Marketplace with the UN Secretariat must ensure that the information and documentation (e.g. financial statements, address, contact name, etc.) provided in connection with their registration are up to date in UNGM. Please verify and ensure that your company is registered under its full legal name.

For Vendors Interested in Registration: Vendors not yet registered should apply for registration on the United Nations Global Marketplace (<http://www.ungm.org>); information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>. Vendors must complete the registration process prior to the closing date of the RFI. Vendors who have not completed the UNGM registration process with the UN Secretariat before the closing date of the RFI are not considered eligible to participate in the potential solicitation process related to the RFI. We strongly recommend all companies to register at least at Level 1 under the UN Secretariat prior to participating in any solicitations.

IMPORTANT NOTICE: Any false, incomplete or defective vendor registration may result in the rejection of the application or cancellation of an already existing registration.

2) RFI Process

Vendors interested in participating in the potential solicitation process should forward their information (as requested in the RFI) to United Nations Interim Security Force in Abyei (UNISFA) by the closing date set forth in this RFI. *Due to the high volume of communications UNISFA is not in a position to issue confirmation of receipt of RFIs.*

Please note that no further details of the potential solicitation can be made available to the vendors prior to issuance of the solicitation documents.

This RFI is issued subject to the conditions contained in the RFI introductory page available at <https://www.un.org/Depts/ptd/rfi>.



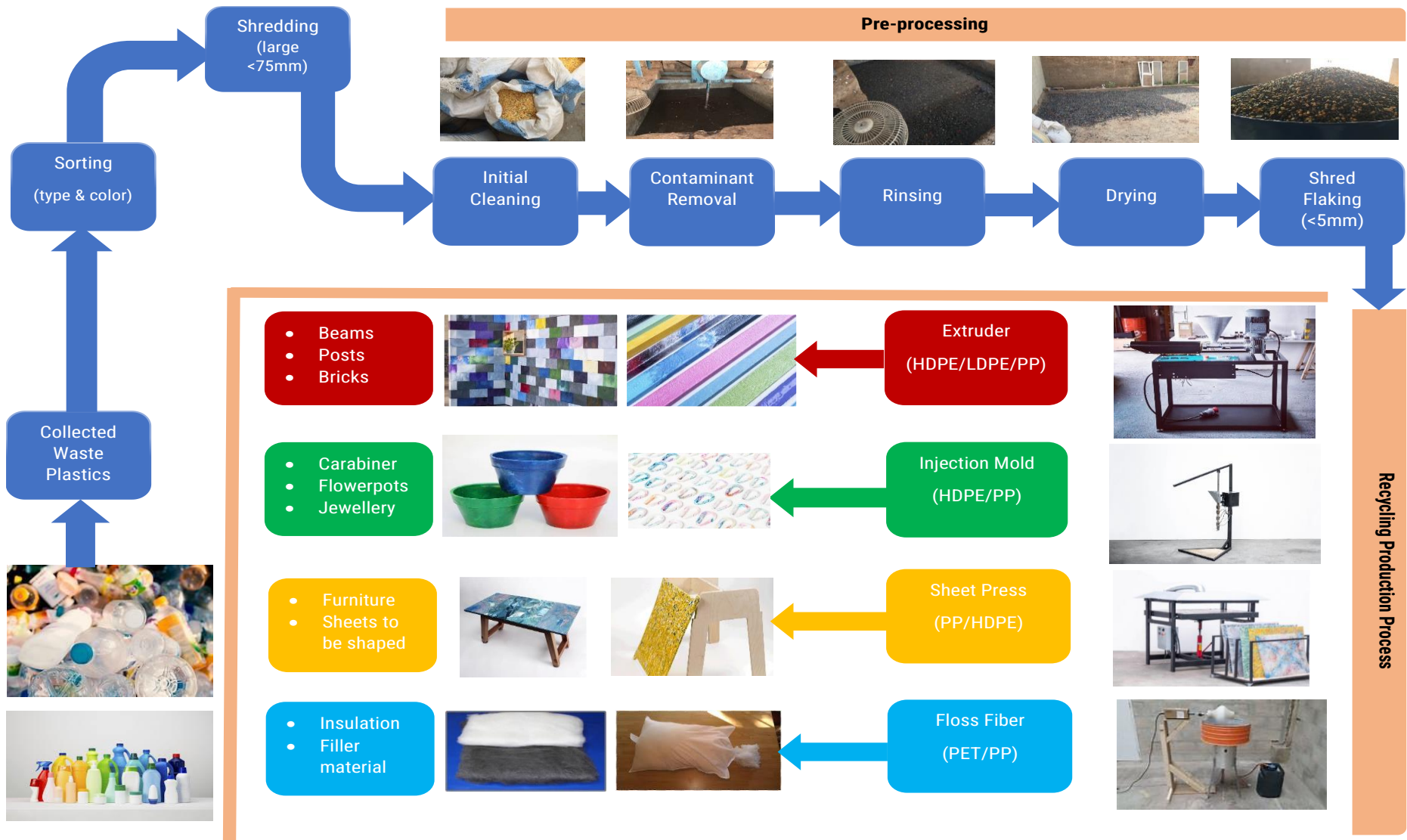


Figure 1: Flow diagram for pre-processing and the recycling production process



TABLE 1: RFI QUESTIONNAIRE

REF	Question	Response	
<u>CONTACT DETAILS</u>			
1.	Company Name		
2.	Company Address		
3.	Company Type (Ltd, PLC, Inc, JV etc)	4.	No. of Years in Business
5.	Primary Contact Name	6.	Primary Contact Phone
7.	Primary Contact Email	8.	Web site (if available)
<u>TECHNICAL</u>			
9.	Does the Company have experience and ability in the provision of plastic recycling plants, including:		
	a. Ability to perform all or part of the services specified in the RFI	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	b. Surveying, designing and laying out, supplying, transporting, installing and commissioning the plant for the plastic recycling	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	c. Providing the types of specialty equipment at the scale and function needed for the project	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	d. Operating and maintaining the plastic recycling plant	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	e. Experience in research and develop efforts geared toward perfecting waste plastic recovery equipment to ensure not only ease of use and maintenance but also the durability of the products and worker safety and develop emerging craft products relative to the local area	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	f. Experience in providing training on the different types of plastics and their specific characteristics and uses for recycling.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	g. Ability to provide operator training and maintenance for each equipment type and their specific recycling process,	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Additional Information provided/attached in the RFI response:		
10.	An all-inclusive fee for the project including proposed equipment as per attached costing sheet.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
11.	Detailed technical specification of all proposed plant and equipment including brands and color brochures in ENGLISH	Yes <input type="checkbox"/>	No <input type="checkbox"/>



12.	Tentative timeline based on previous project experience for execution of works and services.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
13.	A summary of your organization profile, structure and previous experience, particularly in fragile states and remote areas.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
14.	Vendor's experience in decentralized recycling projects in fragile state countries where the vendor was responsible for all or some of the following stages of the project: engagement with local and national authorities, project permitting and licensing, community engagement, energy demand assessment and development of feasibility studies.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
15.	Capacity building programmes run by the vendor in fragile state countries and integration of local workforce (especially youth workforce and women) in the execution of the vendor's projects in those countries.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
16.	Vendor's experience in decentralized waste recycling projects in fragile state countries where the vendor was responsible for all or some of the following stages of the project		
	a. Engagement with local and national authorities	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	b. Project permitting and licensing	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	c. Community engagement	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	d. Development of feasibility studies	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Company DECLARATION: I CERTIFY THAT THE INFORMATION SUPPLIED IS TRUE AND ACCURATE. I UNDERSTAND AND ACCEPT THAT SUBMITTING FALSE INFORMATION WILL RESULT IN EXCLUSION FROM CONSIDERATION FOR THIS PROJECT		Signed <div style="border: 1px solid black; width: 150px; height: 30px; margin: 0 auto;"></div>	Date



Estimated Project Prices and Fees

*(*companies are allowed to propose additional equipment and costs as may be relevant to the project but not so much as to inflate the project requirements and costs)*

Equipment/Resources	Unit of Measure	Estimated Quantity	Unit Cost (USD)	Pilot Project Total Cost (USD)
Sorting stations	EA	1		
Pre-shredding storage	EA	2		
Post shredding storage	EA	2		
Shredder/Flaker basic	EA	1		
Shredder/Flaker pro	EA	1		
Extruder	EA	1		
Injector	EA	1		
Sheet press	EA	1		
PP/PET machine	EA	1		
Washing system	EA	1		
Drying system	EA	1		
Mobile extractor	EA	1		
Sheet press extractor	EA	1		
Brick moulds set	EA	1		
Size beam moulds set of 3 @ various sizes	EA	1		
Sheet press moulds x 6 @ various sizes	EA	6		
Carabiner mould	EA	1		
Flowerpot mould	EA	1		
Wall hook mould	EA	1		
Worker PPE x 3 (Overalls, safety boots, goggles, filter masks, gloves)	Set	3		
Spare parts	Set	1		
Maintenance tools	Set	1		
Transportation and packing for all equipment	Lumpsum	1		
Cost of external technical advisors (covering all aspects)	Daily Rate	14		
Sub- total for Pilot Project				
Project contingency @10%				
Total Costs				